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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Collins et al.
Serial No. : 10/777,820
Filed : February 12, 2004
Title : COBALAMIN CONJUGATES USEFUL AS ANTITUMOR AGENTS

Art Unit : 1654
Examiner : David Lukton
Conf. No. : 5690

MAIL STOP AMENDMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Applicants request consideration of the references listed on the attached PTO-1449 form.

Submitted herewith are English-language Abstracts for Desig. ID Nos. 1, 5, 17, and 24.

This statement is being filed after a first Office action on the merits, but before receipt of a final Office action or a Notice of Allowance. A check for \$180 in payment of the late submission fee of \$1.17(p) is enclosed. Please apply any other charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: 9/8/06

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Signature
Theresa Russek

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Substitute Form PTO-1449
(Modified)U.S. Department of Commerce
Patent and Trademark OfficeAttorney's Docket No.
07039-650002Application No.
10/777,820**Information Disclosure Statement
by Applicant**

(Use several sheets if necessary)

(37 CFR §1.98(b))

Applicant
Collins et al.Filing Date
February 12, 2004Group Art Unit
1654**U.S. Patent Documents**

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	638,752	12/12/1899	E. A. Perkins			
	AB	3,494,769	02/10/1970	Tressler			
	AC	4,399,163	08/16/1983	Brennan, et al.			
	AD	4,411,925	10/28/1983	Brennan, et al.			
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	AF	4,976,960	12/11/1990	Grossman, et al.			
	AG	5,187,107	02/16/1993	Watkins, et al.			
	AH	5,556,644	09/17/1996	Chandra			
	AI	5,559,796	09/24/1996	Edem, et al.			
	AJ	5,569,477	10/29/1996	Nesbitt			
	AK	5,578,336	11/26/1996	Monte			
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	AT	5,964,224	10/12/1999	Kaji			
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	AV	6,015,887	01/18/2000	Teng			
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	AX	6,030,650	02/29/2000	Kamarei			
	AY	6,039,978	03/21/2000	Bangs, et al.			
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	ABB	6,077,557	06/20/2000	Gordon, et al.			
	ACC	6,093,425	07/25/2000	Kamarei			
	ADD	6,093,701	07/25/2000	Wolff, et al.			

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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 07039-650002	Application No. 10/777,820
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Collins et al.	
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U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AEE	6,110,472	08/29/2000	Lever, et al.			
	AFF	6,121,249	09/19/2000	Weissman, et al.			
	AGG	6,126,980	10/03/2000	Smith, et al.			
	AHH	6,153,737	11/28/2000	Manoharan, et al.			
	AII	6,165,720	12/26/2000	Felgner, et al.			
	AJJ	6,183,723	02/06/2001	Seetharam, et al.			
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	AQQ	2005/0004010	01/06/2005	Collins, et al.			

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	ARR	1 811 518	07/10/69	DE			Abst.	
	ASS	0 005 834	10/14/81	EPO				
	ATT	0 069 450	04/10/85	EPO				
	AUU	0 165 716	01/31/90	EPO				
	AVV	58-046027	03/17/83	JPO			Abst.	
	AWW	WO 89/01475	02/23/89	WIPO				
	AXX	WO 92/13571	08/20/92	WIPO				
	AYY	WO 94/27613	12/08/94	WIPO				
	AZZ	WO 94/27641	12/08/94	WIPO				
	AAAA	WO 95/27723	10/19/95	WIPO				
	ABBB	WO96/04016	02/15/96	WIPO				
	ACCC	WO 96/31243	10/10/96	WIPO				
	ADDD	WO 97/14711	04/24/97	WIPO				
	AEEE	WO 97/18231	05/22/97	WIPO				

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							Yes	No
	AFFF	WO 97/33627	09/18/97	WIPO				
	AGGG	WO 98/08859	03/05/98	WIPO				
	AHHH	WO 99/20643	04/29/99	WIPO				
	AIII	WO 99/65529	12/23/99	WIPO				
	AJJJ	WO 99/65930	12/23/99	WIPO				
	AKKK	WO 00/45857	08/10/00	WIPO			Abst.	
	ALLL	WO 00/62808	10/26/00	WIPO				
	AMMM	WO 00/74721	12/14/00	WIPO				
	ANNN	WO 01/17694	03/15/01	WIPO			Abst.	
	AOOO	WO 01/30967	05/03/01	WIPO				
	APPP	EP 0 220 030	10/10/86	Europe				

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Examiner Initial	Desig. ID	Document
	ARRR	Anton et al., "The Synthesis and Properties of Four Spin-labeled Analogs of Adenosylcobalamin," <u>J. Biol. Chem.</u> , 1980, 255(10):4507-4510
	ASSS	Begley et al., "Cobalamin Metabolism in Cultured Human Chorionic Villus Cells," <u>J. Cell. Physiol.</u> , 1993, 156:43-47
	ATTT	Bernhauer et al., "Zur Chemie und Biochemie der Corrinoides," <u>Biochem. Z.</u> , 1966, 344:289-309 (English Abstract included)
	AUUU	Blomquist et al., "Uptake of Labeled Vitamin B ₁₂ and 4-Iodophenylalanine in some Tumors of Mice," <u>Experientia</u> , 1969, 25(3):294-296
	AVVV	Breeman et al., "Indium-111 labeled DTPA- and DOTA-bombesin analogs for receptor scintigraphy and radiotherapy," <u>J. Nucl. Med.</u> , 1999, 40(5):103P, Abstract No. 418
	AWWW	Collins and Hogenkamp, "Transcobalamin II Receptor Imaging via Radiolabeled Diethylene-Triaminepentaacetate Cobalamin Analogs," <u>J. Nucl. Med.</u> , 1997, 38(5):717-723
	AXXX	Collins et al., "Tumor Imaging Via Indium 111-Labeled DTPA-Adenosylcobalamin," <u>Mayo Clin. Proc.</u> , 1999, 74(7):687-691
	AYYY	Cooper and Paranchych, "Selective Uptake of Specifically Bound Cobalt-58 Vitamin B ₁₂ by Human and Mouse Tumour Cells," <u>Nature</u> , 1961, 191:393-395
	AZZZ	de Jong et al., "Radionuclide therapy using radiolabeled somatostatin analogs in tumor-bearing rats," <u>J. Nucl. Med.</u> , 1999, 40(5):102P, Abstract No. 414
	AAAAA	Finkler and Hall, "Nature of the Relationship between Vitamin B ₁₂ Binding and Cell Uptake," <u>Arch. Biochem. Biophys.</u> , 1967, 120:79-85
	ABBBB	Flodh et al., "Accumulation of Labeled Vitamin B ₁₂ in Some Transplanted Tumors," <u>Int. J. Cancer</u> , 1968, 3(5):694-699
	ACCCC	Hall et al., "Cyclic Activity of the Receptors of Cobalamin Bound to Transcobalamin II," <u>J. Cell. Physiol.</u> , 1987, 133:187-191

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	ADDDD	Hatanaka (ed.), "Clinical Experience of Boron-Neutron Capture Therapy for Gliomas – A Comparison with Conventional Chemo-Immuno-Radiotherapy," <u>Boron-Neutron Capture Therapy for Tumors</u> , 1986, Chapter 25, pp. 349-379
	AEEEE	Hogenkamp, "Chemical Synthesis and Properties of Analogs of Adenosylcobalamin," <u>Biochemistry</u> , 1974, 13(13):2736-2740
	AFFFF	Lindemans et al., "Uptake of Transcobalamin II-Bound Cobalamin by HL-60 Cells: Effects of Differentiation Induction," <u>Exp. Cell Res.</u> , 1989, 184(2):449-460
	AGGGG	Luo, "Studies on bone tumor therapeutic radiopharmaceuticals IV, Investigation of the structure-activity-relationships (SARS) of ¹⁵³ SM-aminocarboxylate complexes," <u>J. Nucl. Med.</u> , 1999, 40(5):316P, Abstract No. 1386
	AHHHH	Mishima et al., "First human clinical trial of melanoma neutron capture. Diagnosis and therapy," <u>Strahlenther. Onkol.</u> , 1989, 165:251-254
	AIIII	Momen et al., "Impact of high resolution bone spect imaging of the thoracolumbar spine on patient management in oncology," <u>J. Nucl. Med.</u> , 1999, 40(5):102P, Abstract No. 413
	AJJJJ	Rappazzo and Hall, "Transport Function of Transcobalamin II," <u>J. Clin. Invest.</u> , 1972, 51:1915-1918
	AKKKK	Ruser et al., "Synthesis and Evaluation of Two New Bifunctional Carboxymethylated Tetraazamacrocyclic Chelating Agents for Protein Labeling with Indium-111," <u>Bioconj. Chem.</u> , 1990, 1:345-349
	ALLLL	Wilbur et al., "Evaluation of Biotin-Dye Conjugates for Use in an HPLC Assay To Assess Relative Binding of Biotin Derivatives with Avidin and Streptavidin," <u>Bioconj. Chem.</u> , 2000, 11(4):584-598
	AMMMM	Wilbur et al., "Biotin Reagents for Antibody Pretargeting. 4. Selection of Biotin Conjugates for in Vivo Application Based on Their Dissociation Rate from Avidin and Streptavidin," <u>Bioconj. Chem.</u> , 2000, 11(4):569-583
	AOOOO	Aldrain-Herrada et al., "A peptide nucleic acid (PNA) is more rapidly internalized in cultured neurons when coupled to a <i>retro-inverso</i> delivery peptide. The antisense activity depresses the target mRNA and protein in magnocellular oxytocin neurons," <u>Nucl. Acid Res.</u> , 1998, 26(21):4910-4916
	APPPP	Allen, "Human Vitamin B12 Transport Proteins," <u>Progress in Hematology</u> , 1975, 9:57-84
	AQQQQ	Alvarez et al., "On a New Radiopharmaceutical for Kidney Imaging," <u>International J. Applied Radiation and Isotopes</u> , 1974, 25(6):283-283
	ARRRR	Anderson, et al., "Preparation, Biodistribution and Dosimetry of Copper-64-Labeled Anti-Colorectal Carcinoma Monoclonal Antibody Fragments 1A3-F(ab') ₂ ," <u>J. Nuc. Med.</u> , 1995, 36:850-858
	ASSSS	Basu et al., "Synthesis and Characterization of a Peptide Nucleic Acid conjugated to a D-Peptide Analog of Insulin-like Growth Factor 1 for Increased Cellular Uptake," <u>Bioconj. Chem.</u> , 1997, 8:481-488
	AVVVV	Chinnery et al., "Peptide nucleic acid delivery to human mitochondria," <u>Gene Therapy</u> , 1999, 6:1919-1928
	AWWWW	Coderre et al., "Boron Neutron Capture Therapy of a Murine Melanoma," <u>Cancer Research.</u> , 1988, 48:6313-6316
	AXXXX	Collins et al., "Biodistribution of Radiolabeled Adenosylcobalamin in Patients Diagnosed With Various Malignancies," <u>Mayo Clin Proc.</u> , 2000, 75:568-580
	AYYYY	Cooperman, "Distribution of Radioactive and Nonradioactive Vitamin B12 in Normal and Malignant Tissues of an Infant with Neuroblastoma," <u>Cancer Research</u> , 1972, 32:167-172
	AZZZZ	Cooperman, et al., "Distribution of Radioactive and Nonradioactive Vitamin B12 in the Dog," <u>J. Biol. Chem.</u> , 1960, 235:191-194

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Other Documents (include Author, Title, Date, and Place of Publication)		
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	AAAAAA	Cuoto, "Management of Complications of Cancer Chemotherapy," "Chemotherapeutic Agents Commonly used in Veterinary Medicine," <u>Vet Clin North Am (Sm Anim)</u> , 1990; 20(4):1037-1053,
	ABBBBB	Deprez-Decampaneere et al., "Comparison of the Activity of Daunorubicin and Two Derivatives on L1210 Leukemia In Vitro and In Vivo," <u>Current Chemotherapy: Proceedings of the 10th International Congress of Chemotherapy</u> , Zurich/Switzerland, 18-23 September 1977, Vol. II American Society for Microbiology, p. 1242 (1978)
	ACCCCC	Fedosov et al., "Binding of Cobalamin and Cobinamide to Transcobalamin from Bovine Milk," <u>Biochemistry</u> , 1995, 34:16082-16087
	ADDDDD	Fedosov et al., "Transcobalamin from cow milk: isolation and physico-chemical properties," <u>Biochimica et Biophysica Acta</u> , 1996, 1292:113-119
	AEEEEEE	Flodh, "Accumulation of Labeled Vitamin B12 in Some Transplanted Tumours," In: Distribution and Kinetics of Labeled Vitamin B12, <u>Acta Radiologica</u> , 1968, Supplementum 284, pp. 55-60
	AFFFFFF	Gennaro, <u>Remington: The Science and Practice of Pharmacy</u> , 1995, 19 th Ed., Vol. 2, Mack Publishing Co., pp. 1527-1529, 1561
	AGGGGG	Ghose et al., "Antibody as Carrier of Chlorambucil," <u>Cancer</u> , 1972, 29:1398-1400
	AHHHHH	Ghose et al., "Immunoradioactive Agent against Cancer," <u>Br. Med. J.</u> , 1967, 1:90-93
	AIIIII	Guy et al., "Evaluation of coupling of cobalamin to antisense oligonucleotides by thin-layer and reversed-phase liquid chromatography," <u>J. Chromatog. B</u> , 1998, 709:149-156
	AJJJJJ	Hall et al., "Boron Betaine Analogs: Antitumor Activity and Effects on Ehrlich Ascites Tumor Cell Metabolism," <u>J. Pharm. Sci.</u> , 1979, 68(6):685-688
	AKKKKK	HCAPLUS abstract 1996:676214 of ES 2 088 374, 08-1996, to De La Iglesia Ferreras
	ALLLLL	Kahl et al., "New tumor localizers: Advances in the use of low density lipoproteins (LDL)," <u>Strahlenther. Onkol.</u> , 1989, 165(2/3):137-139
	AMMMMM	Kaplan, et al., "Absorption Studies of ⁵⁹ Fe and ⁵⁸ Co Vitamin B12 by Whole-Body Radiometry in the Radiation Therapy of Collum Carcinoma," <u>Radiobiol. Radiother.</u> , 1983, 24, Abstract, 745
	AOOOOO	Laster et al., "Dihydroxyboryldeoxyuridine (DBDU); Can a borated nucleoside deceive the DNA molecule," <u>Neutron Capture Therapy</u> , 1986, Niigata, Japan: Nishimura Co., Ltd., pp. 46-54
	APPPPP	McLean et al., "Antibodies to Transcobalamin II Block In Vitro Proliferation of Leukemic Cells," <u>Blood</u> , 1997, 89(1):235-242
	AQQQQQ	Mishima et al., "Prerequisites of First Clinical Trial for Melanoma Selective Thermal Neutron Capture Therapy," <u>Neutron Capture Therapy</u> , 1986, Niigata, Japan: Nishimura Co., Ltd., pp. 230-236
	ARRRRR	Morita et al., "2'-o,4'-C-Ethylene-Bridged Nucleic Acids (ENA): Highly Nuclease-Resistant and Thermodynamically Stable Oligonucleotides for Antisense Drug," <u>Bioorgan. Med. Chem. Lett.</u> , 2002, 12:73-76
	ASSSSS	Pardridge et al., "Vector-mediated delivery of polyamide ("peptide") nucleic acid analogue through the blood-brain barrier <i>in vivo</i> ," <u>Proc. Natl. Acad. Sci. USA</u> , 1995, 92:5592-5596
	ATTTTT	Pathare et al., "Synthesis of cobalamin-biotin conjugates that vary in the position of cobalamin coupling. Evaluation of cobalamin derivative binding to transcobalamin II," <u>Bioconjugate Chem.</u> , 1996, 7(2):217-232
	AVVVVV	Pinson et al., "Synthesis, protein binding, and cellular uptake of doxorubicin - cobalamin bioconjugates," 219th Meeting of the American Chemical Society, San Francisco, California, March 26-30, 2000 (Abstracts of Papers of the American Chemical Society, (2000) Vol. 219, Nos. 1-2, Abstract
	AXXXXX	Pooga et al., "Cell penetrating PNA constructs regulate galanin receptor levels and modify pain transmission <i>in vivo</i> ," <u>Nat. Biotechnol.</u> , 1998, 16:857-861

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	AYYYYY	Prakash et al., "Synthesis of 2'-O-[2-[(N,N-Dimethylamino) oxyl] Modified Nucleosides and Oligonucleotides," <u>J. Org. Chem.</u> , 2002, 67:357-369
	AZZZZZ	Registry file record for RN 13870-90-1: compound cited in ES 2 088 364, 08-1996, to De La Iglesia Ferreras
	AAAAAAA	Russell-Jones et al., "Vitamin B 12 mediated oral delivery systems for granulocyte-colony stimulating factor and erythropoietin," <u>Bioconjugate Chem.</u> , 1995, 6(4):459-465
	ABBBBBB	Scarfi et al., "Synthesis, Uptake, and Intracellular Metabolism of a Hydrophobic Tetrapeptide-Peptide Nucleic Acid (PNA)-Biotin Molecule," <u>Biochem. Biophys. Res. Commun.</u> , 1997, 236:323-326
	ACCCCCC	Schinazi et. al., "Synthesis and Properties of Boron and Silicon Substituted Uracil or 2'-Deoxyuridine," <u>Tetrahedron Letters</u> , 1978, 50:4981-4984
	ADDDDDD	Scott, "Bioavailability of vitamin B12," <u>Eur. J. Clinical Nutrition</u> , 1997, 51(Suppl. 1):S49-S53
	AEEEEEE	Simmons et al., "Synthesis and membrane Permeability of PNA-Peptide Conjugates," <u>Bioorgan. Med. Chem. Lett.</u> , 1997, 7(23):3001-3006
	AGGGGGG	Sneath et al., "Protein-Binding Polyhedral Boranes," <u>J. Medicinal Chem.</u> , 1976, 19(11):1290-1294
	AHHHHHH	Soda et al., "Receptor Distribution and the Endothelial Uptake of Transcobalamin II in Liver Cell Suspensions," <u>Blood</u> , 1985, 65(4):795-802
	AIIIIII	<u>The Merck Index An Encyclopedia of Chemicals, Drugs, And Biologicals</u> , 1989, Eleventh Edition Budavari et al., Eds., p. 1577
	AJJJJJJ	<u>The Merck Index An Encyclopedia of Chemicals, Drugs, And Biologicals</u> , 1996, Twelfth Edition Budavari et al., Eds., p. 1710
	AKKKKKK	Uchino et al., "Tissue Distribution of Coenzyme B12 in Rats Following Intravenous Administration," <u>Annals of the New York Academy of Sciences</u> , 1964, 112(Art. 2):844-854
	ALLLLLL	Vares, et al., "Kinetic of 57Co-Cyanocobalamin Distribution in Organs and Tissues of Mice with Transplanted Tumours," <u>Eksp. Onkol.</u> , 1986, 8:33-36, Abstract
	AMMMMMM	Wahlestedt et al., "Potent and nontoxic antisense oligonucleotides containing locked nucleic acids," <u>Proc. Natl. Acad. Sci. USA</u> , 2000, 97(10):5633-5638
	ANNNNNN	Walker et al., "The chemical synthesis and nuclear magnetic resonance spectroscopy of adenosylcobalamin selectively enriched with carbon-13," <u>Biochemistry</u> , 1974, 13(12):2650-2655
	AOOOOOO	Whittaker, "Biosynthesis of a Thiouracil Pheomelanin in Embryonic Pigment Cells Exposed to Thiouracil," <u>J. Biol. Chem.</u> , 1971, 246(20):6217-6226
	APPPPPP	Woolley, et al., "Uptake of [CO-57]-Vitamin B-12 By Murine Tumours of Many Histologic Types," <u>Clinical Research</u> , 1993, Abstracts of National Meeting, Association of American Physicians, p. 73A
	AQQQQQQ	Asbury et al., "Neuropathologic Study of Fourteen Cases of Malignant Brain Tumor Treated by Boron-10 Slow Neutron Capture Therapy," <u>J. Neuropathol. Exp. Neurol.</u> , 1972, 31:278-303
	ARRRRRR	Deshpande et al., "Yttrium-90-labeled monoclonal antibody for therapy: Labeling by a new macrocyclic bifunctional chelating agent" <u>J. Nucl. Med.</u> , 1990, 31:473-479
	ASSSSSS	Farr et al., "Neutron capture therapy with boron in the treatment of glioblastoma multiforme," <u>Am. J. Roentgenol.</u> , 1954, 71(2):279-291
	ATTTTTT	Godwin et al., "Pathological study of eight patients with glioblastoma multiforme treated with by neutron capture radiation using boron 10," <u>Cancer (Phila.)</u> , 1955, 01-615
	AUUUUUU	Higashi et al., "In vitro assessment of 2-fluoro-2-deoxy-D-glucose, L-methionine and thymidine as agents to monitor the early response of a human adenocarcinoma cell line to radiotherapy," <u>J. Nucl. Med.</u> , 1993, 34:773-779
	AVVVVVV	Javid et al., "The possible use of neutron capture isotopes," <u>J. Clin. Invest.</u> , 1952, 31:603-610

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	AWWWWWW	Locher et al., <u>Am. J. Roentgenol. Radium Ther.</u> , 1936, 36:1-13
	AXXXXXX	Poster Sessions, Proceedings of the 46th Annual Meeting, J. Nuc. Med., p. 316, No. 1386, 1999
	AYYYYYY	Poster Sessions, Proceedings of the 46th Annual Meeting, J. Nuc. Med., p. 318, No. 1396, 1999
	AZZZZZZ	Poster Sessions, Proceedings of the 46th Annual Meeting, J. Nuc. Med., p. 319, No. 1398, 1999
	AAAAAAA	Scientific Papers, Proceedings of the 46th Annual Meeting, J. Nuc. Med., p. 102, No. 413, 1999
	ABBBBBB	Scientific Papers, Proceedings of the 46th Annual Meeting, J. Nuc. Med., p. 102, No. 414, 1999
	ACCCCCC	Scientific Papers, Proceedings of the 46th Annual Meeting, J. Nuc. Med., p. 103, No. 415, 1999
	ADDDDDD	Scientific Papers, Proceedings of the 46th Annual Meeting, J. Nuc. Med., p. 124, No. 500, 1999
	AEEEEEE	Scientific Papers, Proceedings of the 46th Annual Meeting, J. Nuc. Med., p. 123, No. 499, 1999
	AFFFFFF	Sneath, "Protein-binding polyhedral boranes," <u>J. Medicinal Chem.</u> , 1974, 17:796-799
	AGGGGGG	Swanson et al., <u>Pharmaceuticals in Medical Imaging</u> , MacMillan Pub. Co., New York (1990) at pages 621-628
	AHHHHHH	Sweet et al., "The possible use of neutron-capturing isotopes such as boron," <u>J. Neurosurg.</u> , 1952, 9:200-209
	AIIIIII	Sweet, "The Use of Nuclear Desintegrations in the Diagnosis and Treatment of Brain Tumor," <u>N. Engl. J. Med.</u> , 1951, 245:875-878
	AJJJJJJ	van Eijkeren et al., <u>Acta Oncologica</u> , 1992, 31:539
	AKKKKKK	Waibel et al., "Stable one-stem technetium-99m labeling of His-tagged recombinant proteins with a novel Tc(I)-carbonyl complex," <u>Nature Biotechnology</u> , 1999, 17:897-901

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	